

Title (en)

Controller and control method for injection using function map

Title (de)

Verfahren und Vorrichtung zum Steuern der Einspritzung durch Kennfeldern

Title (fr)

Dispositif et méthode de commande d'injection par diagramme caracteristique

Publication

**EP 1344921 A2 20030917 (EN)**

Application

**EP 03251591 A 20030314**

Priority

GB 0206259 A 20020316

Abstract (en)

A method of controlling an injector (1) or the like suitable for use in an internal combustion engine, includes providing a first data map having a plurality of first data map points, each of the first data map points representing a first data map output value, and providing a function map (40) comprising a second data map (46; 146) having a plurality of second data map points, each corresponding to a respective one of the first data map points, and wherein the second data map is divided into at least a first-type data map region containing second data map points representing second data map output values only of a first type (Y, O) and a second-type data map region containing second data map points representing second data map output values only of a second type (Y, O), wherein a portion of the second data map (46; 146) defines a hysteresis region (52). The method also includes determining an operating point on an operating path (50; 150) within the second data map (46; 146) in dependence upon first and second engine operating parameters (4a, 4b) and determining a control function for the injector (1) based on a first data map output value determined from the first data map and the second data map output value determined from the second data map (46; 146), in dependence upon whether the operating point in the second data map (46; 146) lies in a part of the first-type data map region which is outside the hysteresis region (52), or whether the operating point in the second data map (46; 146) lies in a part of the first-type data map region which is within the hysteresis region (52). <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Cited by

EP1772611A1; EP1760603A1; US6907338B2; EP1903201A3; US7630827B2; WO2004027240A1; US7280912B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 1344921 A2 20030917**; **EP 1344921 A3 20040915**; **EP 1344921 B1 20051130**; AT E311532 T1 20051215; DE 60302479 D1 20060105; DE 60302479 T2 20061116; GB 0206259 D0 20020501; US 2004000294 A1 20040101; US 6907338 B2 20050614

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